

Title (en)

VERTICAL JUNCTION FIELD EFFECT SEMICONDUCTOR DIODES

Title (de)

VERTIKALE SPERRSCHICHT-FELDEFFEKT-HALBLEITERDIODEN

Title (fr)

DIODES A SEMICONDUCTEURS A EFFET DE CHAMP A JONCTION EN STRUCTURE VERTICALE

Publication

**EP 1336203 A2 20030820 (EN)**

Application

**EP 01989323 A 20011018**

Priority

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- US 71244900 A 20001113

Abstract (en)

[origin: US2002066939A1] Methods and apparatus of forming a semiconductor device using pedestals and sidewalls. The pedestals and sidewalls may provide an etch stop and/or a diffusion barrier during manufacture of a semiconductor device. Processes of forming diode connected vertical cylindrical field effect devices are disclosed to exemplify the use of the pedestals and/or sidewalls. A system for forming the pedestals and sidewalls is described.

IPC 1-7

**H01L 29/861**; H01L 21/329

IPC 8 full level

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CPC (source: EP KR US)

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**H01L 2924/0002** + **H01L 2924/00**

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